

IN THE CLAIMS

Claim 1 (original): A process for modifying an unmodified clay, in particular a montmorillonite type clay, characterized in that the clay is intimately mixed with an organomodifier selected from quaternary ammonium salts, sulphonium salts, phosphonium salts, siliconated ammonium compounds, highly fluorinated ammonium compounds, precursors of said salts and mixtures of at least two of said compounds, in the presence of carbon dioxide ( $\text{CO}_2$ ) under pressure.

Claim 2 (currently amended): A The process according to claim 1, characterized in that the  $\text{CO}_2$  is in the supercritical state.

Claim 3 (currently amended): A The process according to claim 1 or ~~claim 2~~, characterized in that the clay and the organomodifier are intimately mixed before being brought into contact with  $\text{CO}_2$  under pressure.

Claim 4 (currently amended): A The process according to ~~any one of claims 1 to 3~~ claim 1, characterized in that the quaternary ammonium salt employed is an alkylammonium salt.

Claim 5 (currently amended): A The process according to claim 4, characterized in that the alkylammonium salt is selected from the group comprising tetraethylammonium chloride,

tetrabutylammonium hydrogen sulphate, didodecyldimethylammonium bromide and mixtures thereof.

Claim 6 (currently amended): A The process according to ~~any one~~ ~~of claims 1 to 3~~ claim 1, characterized in that the siliconated ammonium compound used is a modified poly(dimethylsiloxane).

Claim 7 (currently amended): A The process according to ~~any one~~ ~~of claims 1 to 3~~ claim 1, characterized in that the highly fluorinated ammonium compound used is tetrahydroperfluorooctyltriethylammonium iodide.

Claim 8 (currently amended): A The process according to ~~any one~~ ~~of claims 1 to 3~~ claim 1, characterized in that the quaternary ammonium compound precursors are an amine and an alkyl halide.

Claim 9 (currently amended): A The process according to ~~any one~~ ~~of claims 1 to 8~~ claim 1, characterized in that the CO<sub>2</sub> is at a pressure of 50 to 300 bars and at a temperature of 40°C to 50°C, advantageously about 40°C.

Claim 10 (currently amended): A The biodegradable polyester foam prepared in the presence of an organomodified clay using the process according to ~~any one of claims 1 to 9~~ claim 1, having a homogeneous substantially regular, fine and closed cellular structure.

Claim 11 (currently amended): Use of a biodegradable polyester foam ~~according to claim 10 and/or~~ prepared in the presence of an organomodified clay using the process ~~according to any one of~~ claims 1 ~~to~~ 9, for the manufacture of exterior coatings, drinks and fast food packaging, bottles, disposable cutlery, thermoformed articles, fibres, films, mixtures with starch, bioresorbable medical implants, agricultural transplantation pots, plant labels and fixings, meditrays, biomaterials and re-absorbable patches.